

**FIGURE 1**

CGC GGC TGT CGG AGC AAA CGC AAA CCC CCC AGG TTG TTC TAG CGT GTG  
5 CAG CGG CTA GCT 60  
GAT TGA TTG TCT TCT GTG ATA TAT CCA GAG CTC GTG TTT TGT GGT TTG  
TGG TTT GTG GTT 120  
TGT GCT TGG ATT GTT GAT GTG CTA ATT CGC GGC GTT ACA AGA TCA CTG  
CTG GAT TGA TAT 180  
10 TGA GTT GTG CCT CGG CTG TGC TGG CTG TGT GTT GAT TCT CTC CTC GTC  
GTG GTG ATC GAT 240  
ATG GAG ATT GTT GCA GTA GAT CAG GAG GGA GCT CGT GTT GTT GGG ACG  
AAC TGT ATG CTT 300  
M E I V A V D Q E G A R V V G T N C M L 20  
15 GCT CGT GGT GGA ACT GGT GCT GTA GCG CCA GTG TTG GAG CTG ACA GCG  
ACG CCT CGT CAG 360  
A R G G T G A V A P V L E L T A T P R Q 40  
20 GAT GCA GCC GCT GAA GCT GGT GTA GAC GAA CCG GCA CAA CAC CAA TGC  
GAG CAT TTC TCC 420  
D A A A E A G V D E P A Q H Q C E H F S 60  
ATA AGA GGG TAT GTT GCT CTT CTT CAG AAG AAG GAT CCA AAA TTC TGC  
25 TCT CTA TCT CGG 480  
I R G Y V A L L Q K K D P K F C S L S R 80  
ATT TTC CAT GAC CAG AAA AAA TGT GAT GAA CAC AAA GCT AGT TCA AGC  
CCA TTT TCT GTA 540  
30 I F H D Q K K C D E H K A S S S P F S V 100  
GCA AAG TTT CGA CGA TGG GAT TGC TCG AAG TGC TTG GAT AAG TTG AAA  
ACT TCA GAT AAT 600

5 G T A P R T L P A K Q N G T S D G C S I 140

10

T F V R S T F V P A S V G S Q K V S P S 160

T Q S S Q G K N A D R S T L P K S V Q E 180

15

G N D S K C N A P S G K N G A A E A N T 200

20

D S P M K D L Q G P A Q N Y D V A A N V 220

25

S E D N T S V D V G A L P E V P Q I T W 240

30

H I E V N G A D Q P P S T P K L S E V V 260

L K R N E D E N G K T E E T L V A E Q C 280

AAT TTG ACC AAA GAT CCT AAC CCA ATG TCT GGA AAG GAA CGT GAT CAG  
GTT GCT GAG CAG 1140

N L T K D P N P M S G K E R D Q V A E Q 300

5 TGC AAT TTG ACC AAA GAT CCG AAA CCA GTG TCT GGG CAG AAA TGT GAG  
CAG ATC TGC AAT 1200

C N L T K D P K P V S G Q K C E Q I C N 320

10 GAG CCA TGT GAA GAA GTT GTT CTC AAA AGA AGC TCC AAA TCT AAG AGG  
AAG ACG GAT AAG 1260

E P C E E V V L K R S S K S K R K T D K 340

15 AAG TTG ATG AAG AAG CAG CAG CAC AGC AAG AAA CGC ACT GCC CAG GCT  
GAT GTT TCA GAT 1320

K L M K K Q Q H S K K R T A Q A D V S D 360

20 GCA AAG CTT TGT CGG AGA AAG CCA AAA AAG GTG CGG CTT CTA TCA GAA  
ATT ATA AAT GCT 1380

A K L C R R K P K K V R L L S E I I N A 380

AAC CAG GTT GAG GAT TCT AGA AGT GAC GAA GTT CAT CGT GAA AAT GCC  
GCT GAT CCC TGT 1440

N Q V E D S R S D E V H R E N A A D P C 400

25 GAG GAT GAT AGA AGT ACC ATC CCG GTC CCG ATG GAA GTA AGC ATG GAT  
ATT CCT GTT AGC 1500

E D D R S T I P V P M E V S M D I P V S 420

30 AAC CAT ACA GTG GGA GAA GAT GGG TTA AAA TCA AGT AAG AAC AAG ACA  
AAA CGC AAA TAC 1560

N H T V G E D G L K S S K N K T K R K Y 440

TCT GAT GTT GTA GAT GAT GGA TCA TCA CTT ATG AAC TGG CTG AAT GGA  
AAA AAG AAA AGA 1620

09820656.0400

5 T G S V H H T V A H P A G N L S N K K V 480

10

T P T A S T Q H D D E N D T E N G L D T 500

45

S K G K T A G L S K G K T H S A A S T K 540

20

Y G G E S T R N G Q N I H V L S A E D Q 560

25 C O M E T E N S V L S H S A K V S P A E 580

30

H D I Q I M S D L H E Q S L P K K K K K 600

CAA AAA CTT GAA GTG ACT CGT GAA AAA CAG ACC ATG ATA GAT GAC ATC  
CCC ATG GAT ATT 2100

Q K L E V T R E K Q T M I D D I P M D I 620

5 GTT GAA CTG CTA GCT AAA AAC CAG CAT GAG AGG CAG CTT ATG ACT GAG  
ACT GAT TGT TCT 2160

V E L L A K N Q H E R Q L M T E T D C S 640

10 GAC ATC AAC CGT ATT CAA TCC AAG ACA ACT GCT GAT GAT GAT TGT GTA  
ATA GTA GCT GCC 2220

D I N R I Q S K T T A D D D C V I V A A 660

AAG GAT GGT TCA GAT TAT GCA TCA AGT GTG TTT GAC ACT AAT TCC CAA  
CAG AAG TCC TTG 2280

15 K D G S D Y A S S V F D T N S Q Q K S L 680

GCA TCC CAA AGT ACA CAG AAG GAG TTA CAG GGT CAT TTG GCA TTG ACC  
ACA CAA GAG TCT 2340

A S Q S T Q K E L Q G H L A L T T Q E S 700

20 CCA CAT CCT CAG AAC TTT CAG TCT ACT CAG GAA CAG CAG ACA CAT TTG  
CGG ATG GAA GAA 2400

P H P Q N F Q S T Q E Q Q T H L R M E E 720

25 ATG GTC ACT ATT GCT GCA AGC TCA CCA CTA TTT TCA CAT CAT GAT GAT  
CAG TAT ATT GCT 2460

M V T I A A S S P L F S H H D D Q Y I A 740

30 GAA GCA CCA ACT GAA CAT TGG GGC CGT AAG GAC GCA AAG AAG CTA ACG  
TGG GAG CAA TTT 2520

E A P T E H W G R K D A K K L T W E Q F 760

AAG GCC ACT ACA AGA AAT TCT CCA GCA GCA ACA TGT GGT GCT CAA TTT  
AGA CCT GGT ATC 2580

Topol 35082860

K A T T R N S P A A T C G A Q F R P G I 780

CAA GCA GTT GAC TTG ACT TCT ACT CAT GTC ATG GGA TCT TCC AGC AAT  
TAT GCA TCT CGC 2640

5 Q A V D L T S T H V M G S S S N Y A S R 800

CAA CCA GTA ATT GCG CCA CTG GAC CGC TAT GCT GAA AGA GCG GTT AAC  
CAG GTC CAT GCA 2700

Q P V I A P L D R Y A E R A V N Q V H A 820

10

AGA AAT TTT CCA AGC ACA ATA GCA ACC ATG GAA GCG AGT AAG TTA TGT  
GAT CGG AGA AAT 2760

R N F P S T I A T M E A S K L C D R R N 840

15

GCT GGA CAA GTA GTC TTG TAT CCT AAA GAA TCC ATG CCT GCG ACG CAT  
CTT CTG AGA ATG 2820

A G Q V V L Y P K E S M P A T H L L R M 860

20

ATG GAT CCA TCA ACA TTA GCA AGC TTC CCC AAC TAT GGA ACT TCT AGC  
AGG AAC CAG ATG 2880

M D P S T L A S F P N Y G T S S R N Q M 880

GAG TCT CAA CTT CAT AAT TCT CAG TAT GCA CAT AAT CAG TAC AAA GGA  
TCA ACC AGC ACA 2940

25

E S Q L H N S Q Y A H N Q Y K G S T S T 900

TCA TAT GGC AGT AAC CTG AAT GGA AAG ATT CCA TTG ACA TTC GAA GAC  
TTA TCA CGG CAT 3000

S Y G S N L N G K I P L T F E D L S R H 920

30

CAG CTG CAT GAT CTG CAC AGA CCT TTA CGC CCA CAT CCT AGA GTT GGT  
GTG CTT GGC TCC 3060

Q L H D L H R P L R P H P R V G V L G S 940

TTG CTG CAG AAG GAA ATT GCA AAC TGG TCG GAG AAC TGT GGC ACA CAA  
TCT GGT TAT AAG 3120  
L L Q K E I A N W S E N C G T Q S G Y K 960

5 TTA GGA GTG TCA ACA GGA ATA ACA TCG CAT CAG ATG AAC AGA AAG GAA  
CAT TTT GAA GCC 3180  
L G V S T G I T S H Q M N R K E H F E A 980

10 CTG AAT TCT GGA ATG TTT TCA GCA AAA TGG AAT GCA TTG CAG TTG GGT  
TCT GTT AGC TCC 3240  
L N S G M F S A K W N A L Q L G S V S S 1000

15 AGT GCA GAT TTT TTA TCA GCG AGG AAC AGC ATA GCT CAA TCT TGG ACC  
AGA GGC AAG GGT 3300  
S A D F L S A R N S I A Q S W T R G K G 1020

20 AAA ATG GTT CAT CCC TTG GAT CGG TTT GTG AGA CAG GAT ATC TGT ATA  
ACT AAC AAG AAC 3360  
K M V H P L D R F V R Q D I C I T N K N 1040

CCA GCT GAT TTT ACT ACA ATC AGT AAC GAT AAC GAG TAT ATG GAT TAC  
CGC TGA AGC AGA 3420  
P A D F T T I S N D N E Y M D Y R \* 1058

25 AAG TGG TGT GCA TAA TTC CTG AAC ATT TAC AAT CAT ACA TTT CAT CTT  
TAT GGC GCC AAA 3480  
TAG TCA TAC TGT AAG AGG AGG GCT TTG CTG GAT CTG CTG TAA GGC TTC  
TTG TAA GTT GTG 3540  
GAT GCC CCA TTT TCT GGA TGG GAA CCT GCC AGA CAG TGA ACA AGG GCT  
30 TTG CAA GGT GCA 3600  
GCA TCC GGT TTT TGT TTT GCC AGT CCA AGA AAC GTC CTC CTG TTA CTT  
TGT AGT TGT ACT 3660  
CAT ACT AGT GCG CTT GTT TGT ACA AGG AGA AAT GTG TAA CCT TGT TGA  
AAA AAA TGT CTC 3720

CCC CAT TTT GTA ATT ACC ATA AGG AGG TTT ATA GTG TTG TGA GCT GTG  
TGT GAC TGA CGG 3780

CGA GAA ATG GTT TTG TCG GTG TTA AGG TTG AAA CGA CTA GCT CTC GTT  
ATC AAT GTG TTG 3840

5 TAA ACT TCT AGA TTG ATG TGT TAC CTT ACT CTT GAA GTC AAC ACC GGA  
GAA TTT AC 3896

[illegible]